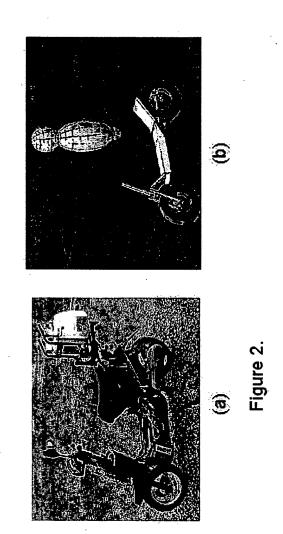


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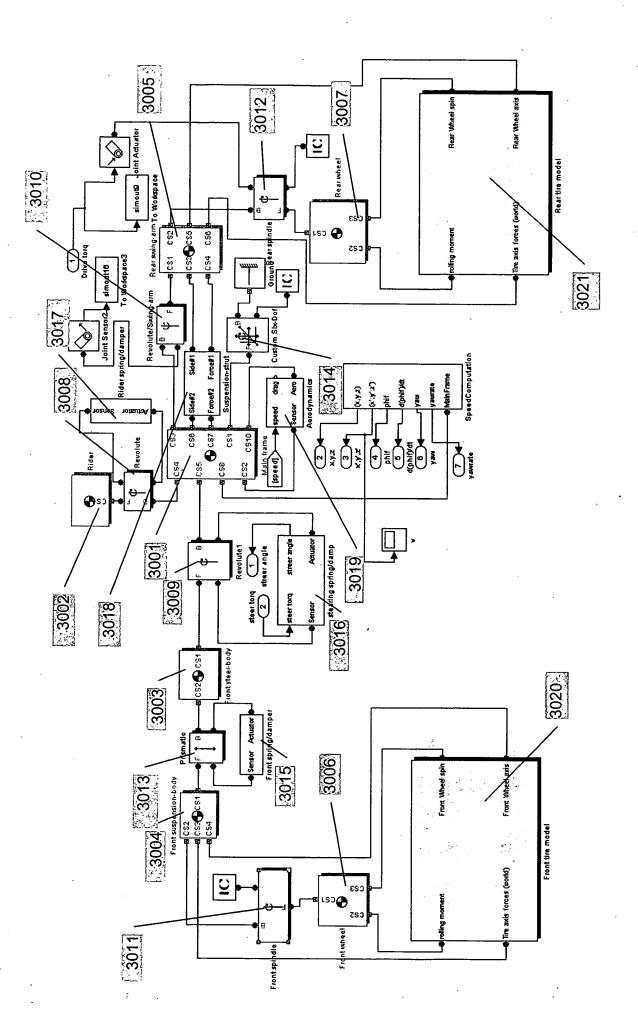
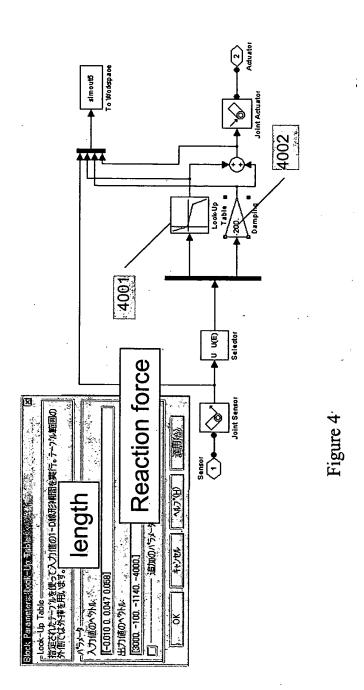
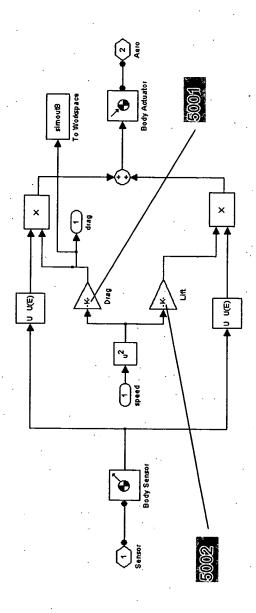
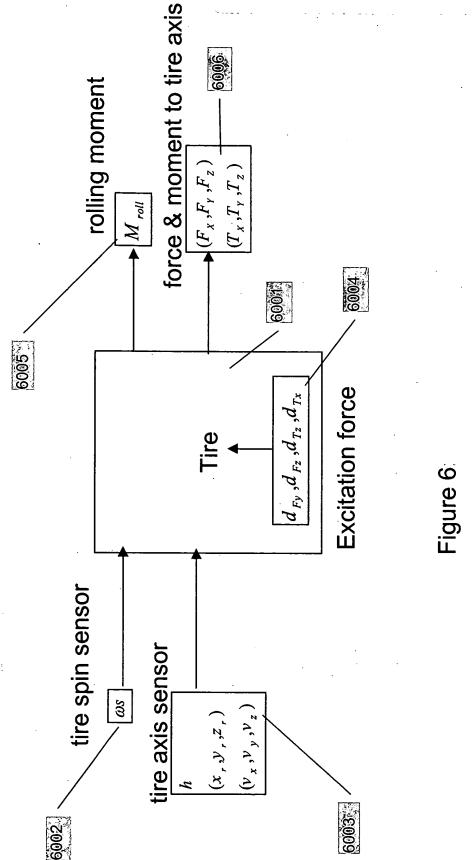


Figure 3.

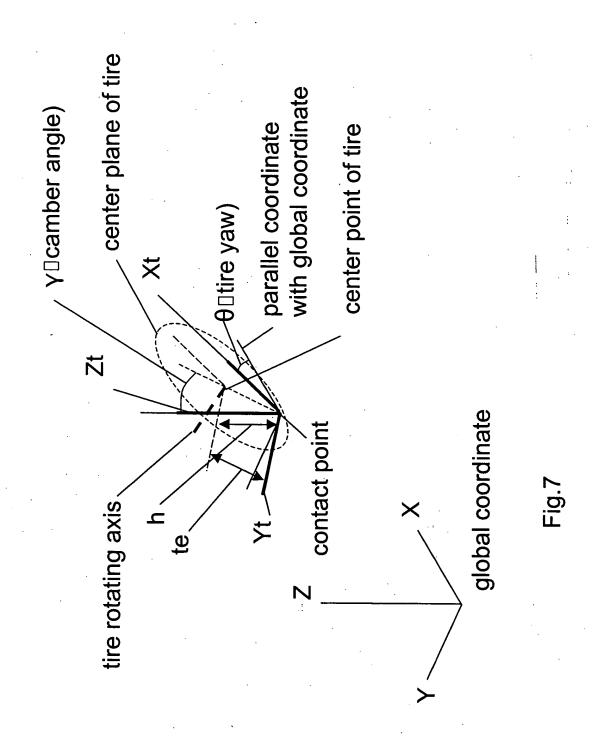




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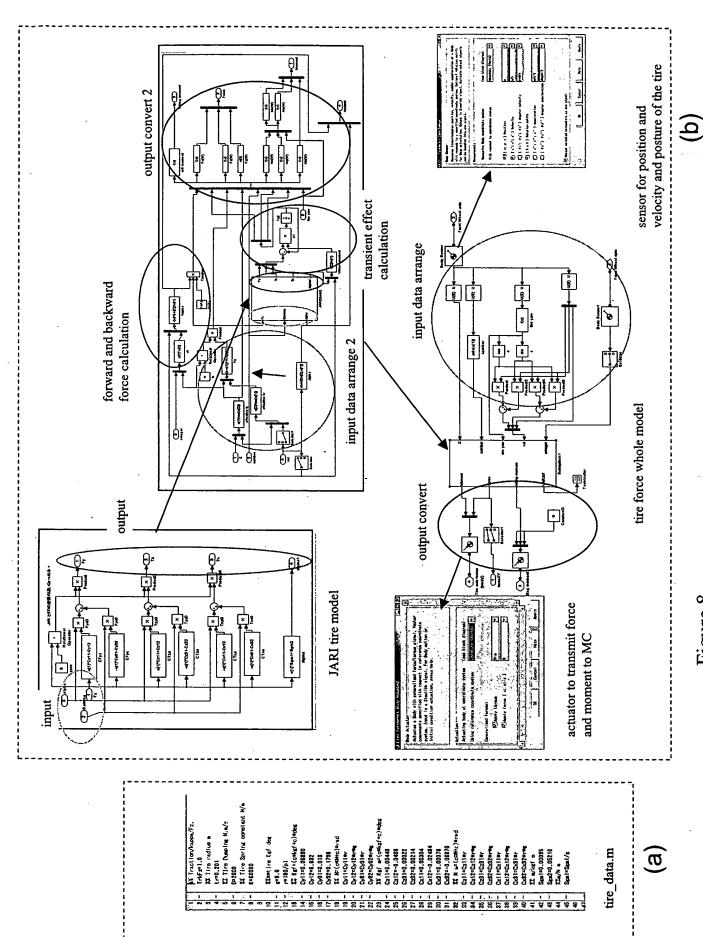
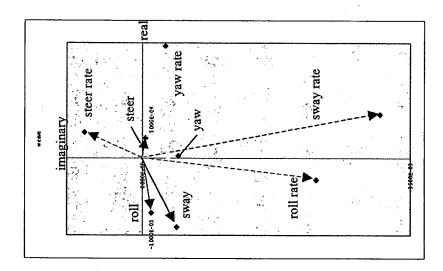


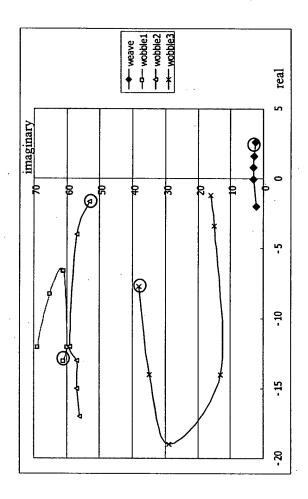
Figure 8.

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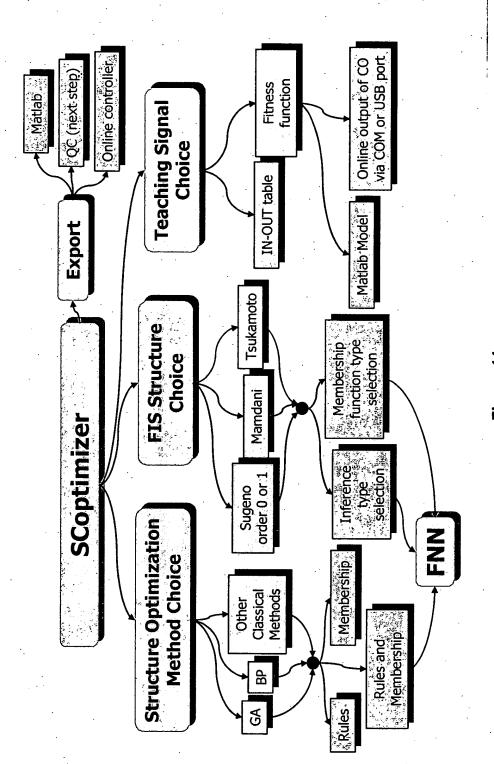


Figure 11.

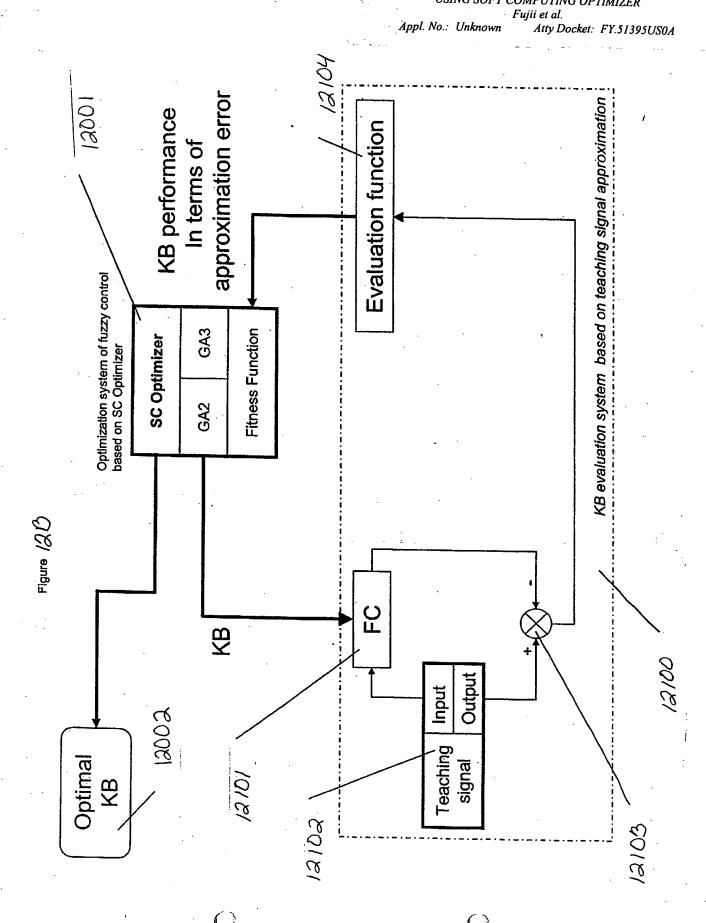
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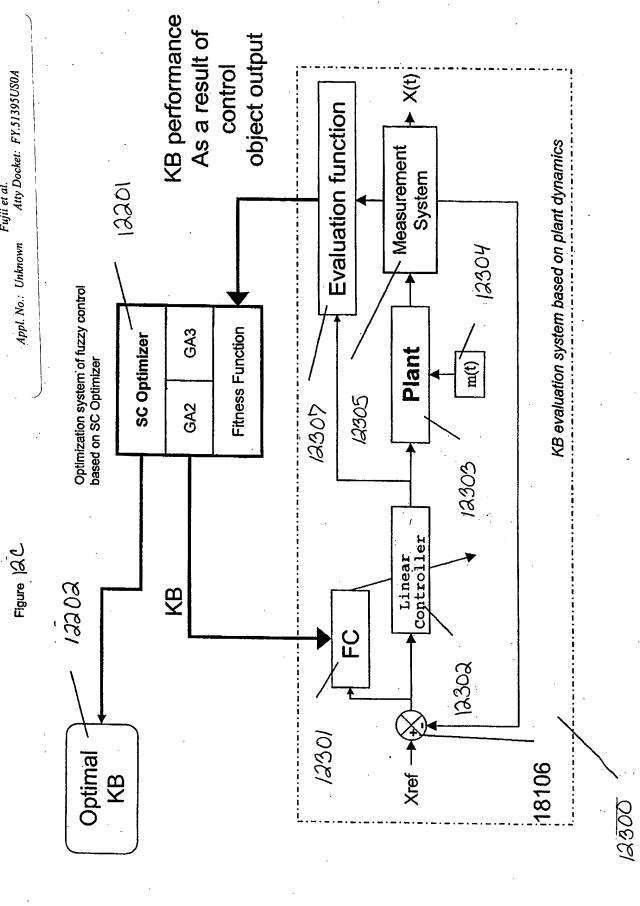
Appl. No.: Unknown

KB with requested **Teaching signal** (Input - Output performance Result pattern) Preliminary Optimization of Linguistic Refine parameters of MF with GA3 **Create Linguistic Variables** Variable Parameters with GA1 Optimization of rules with GA2 (Type, Number, Parameters) **Create Rule Base** (LBRW or Complete) Optimize Rules Refine KB Stage 5 Stage 3 Stage 4 Number of Inputs and Type of Fuzzy Rules (Mamdani, Sugeno,...) **External performance** Choose a Fuzzy Output: KB performance of Outputs Input: KB for evaluation Control Object Control Object Model function Model Stage 1

Figure 12A

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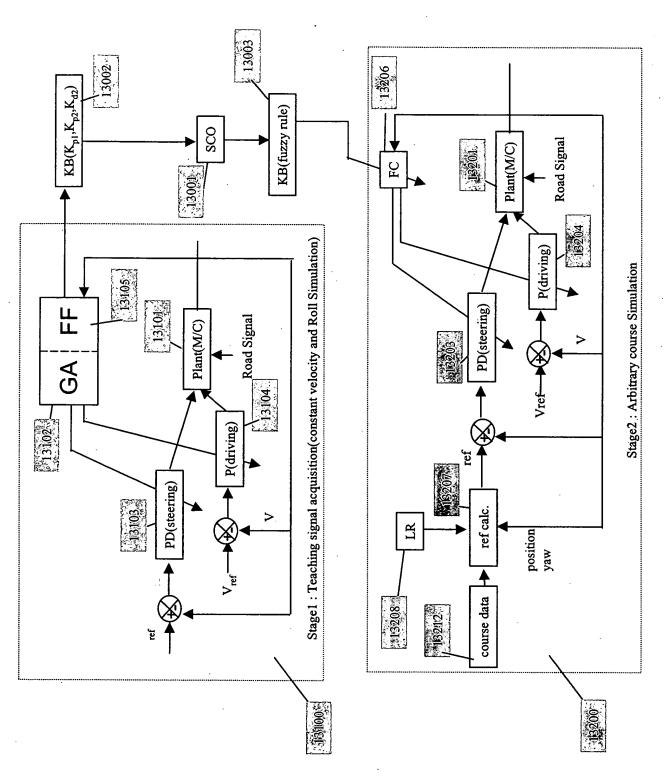
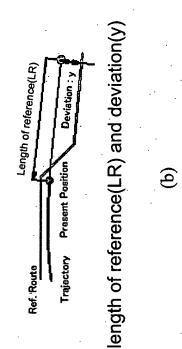
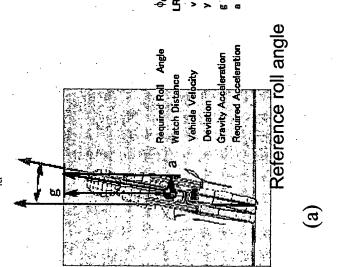


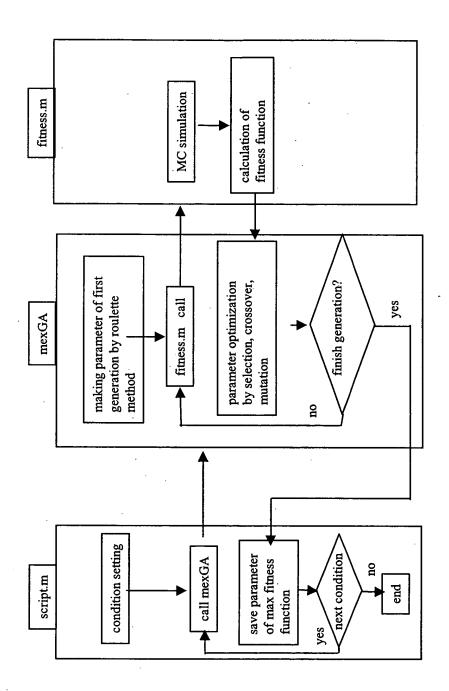
Figure 13

Figure 14



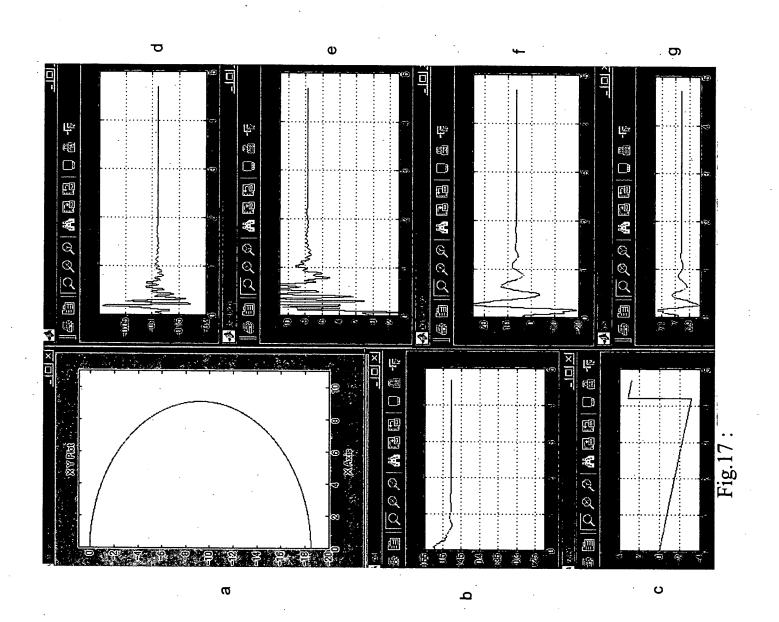


Appl. No.: Unknown

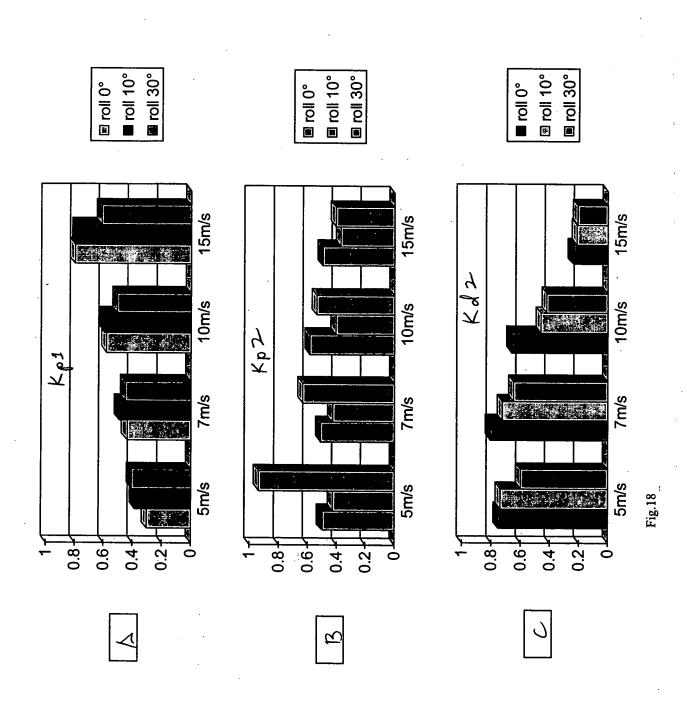


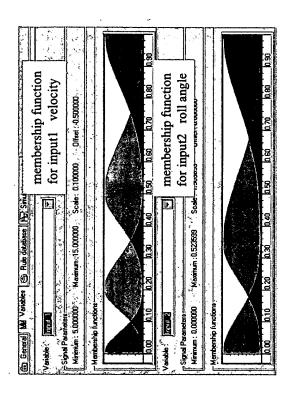
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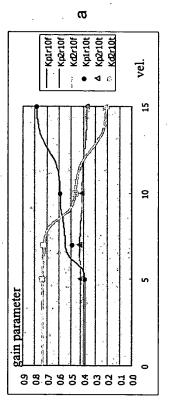
Appl. No.: Unknown





Appl. No.: Unknown

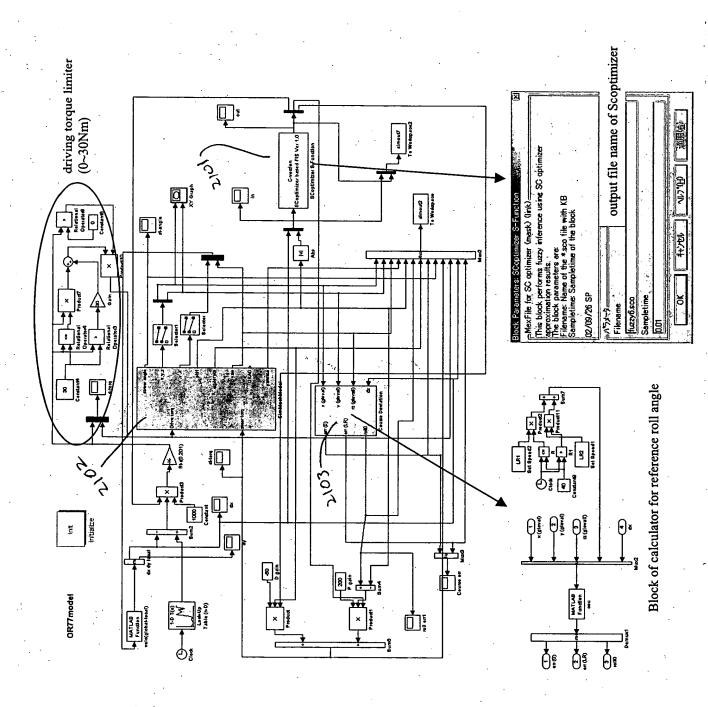
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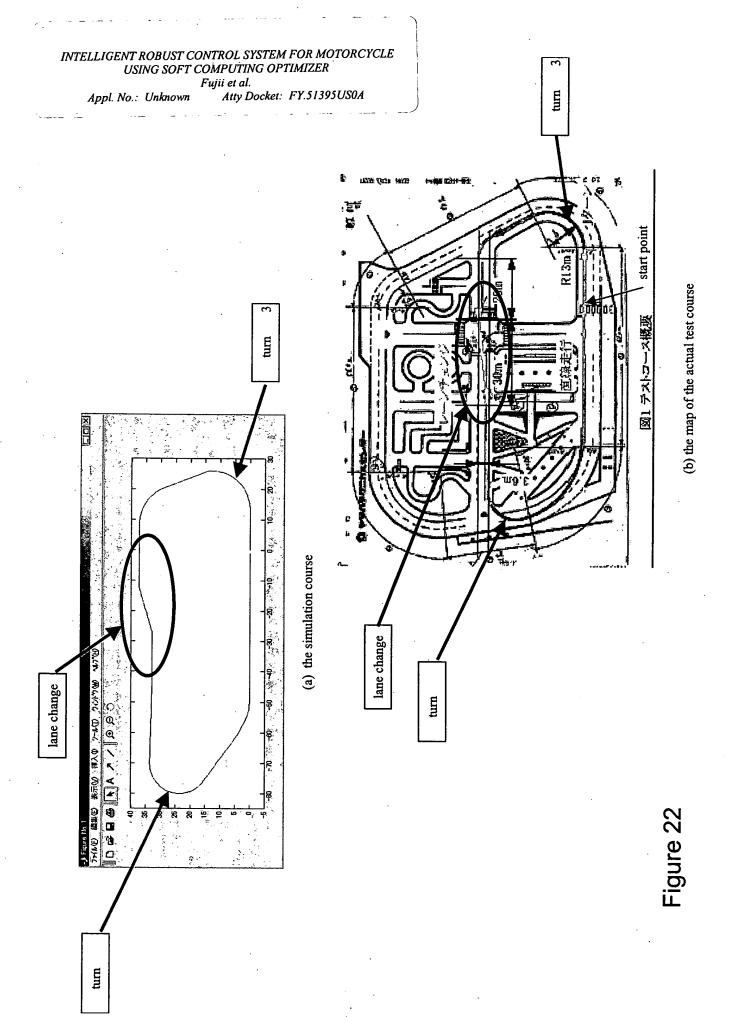


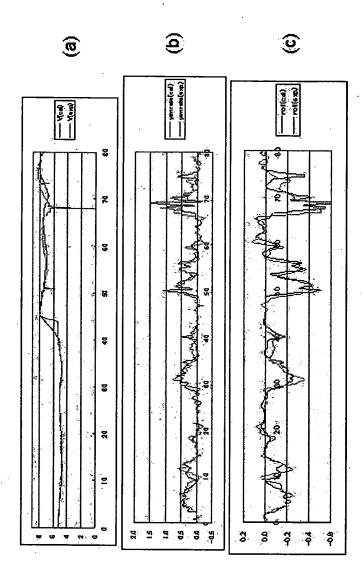
- Kp1v7f - Kp2v7f - Kq2v7f - Kp1v7t Kp1v7t Kp1v7t roll 90 Lines:Fuzzy controller output(roll 10deg.) point: Teaching signal(roll 10deg.) 0.5 9.4 93 7 gain parameter 5

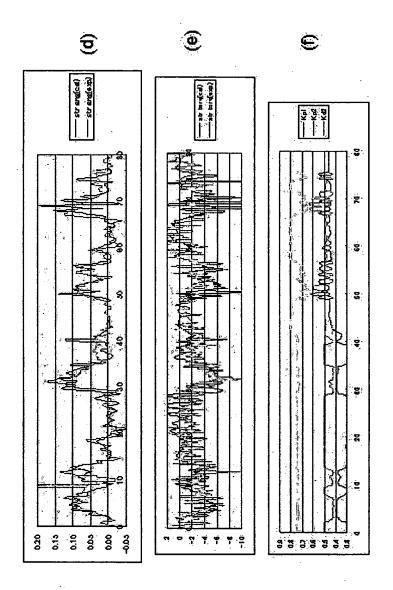
Lines:Fuzzy controller output(vel.7m/s) point: Teaching signal(vel.7m/s)

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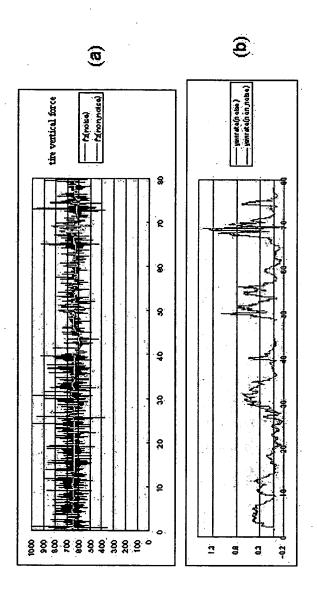
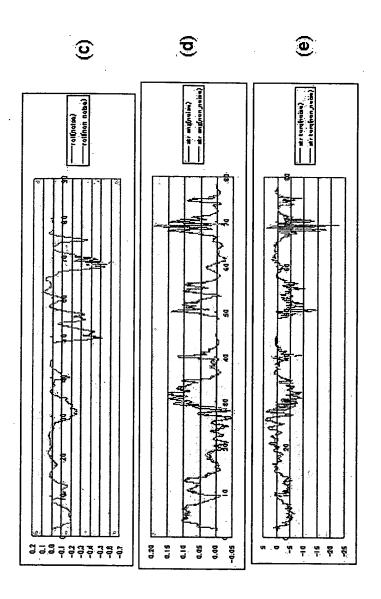
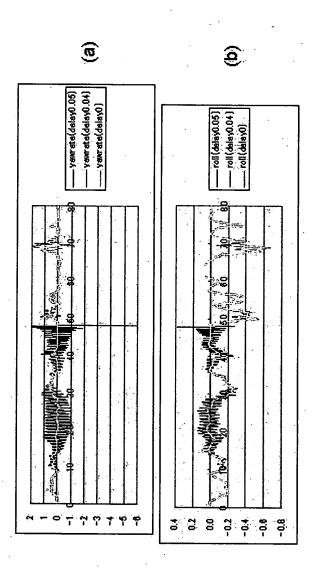
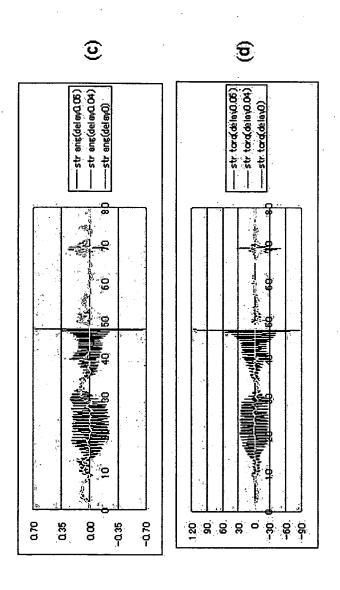


Fig. 24 (s.-b from above



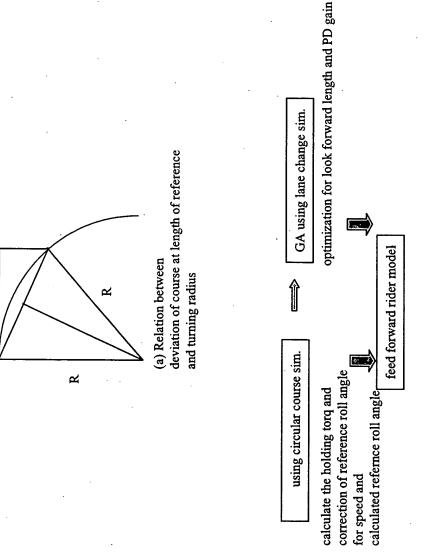


Appl. No.: Unknown

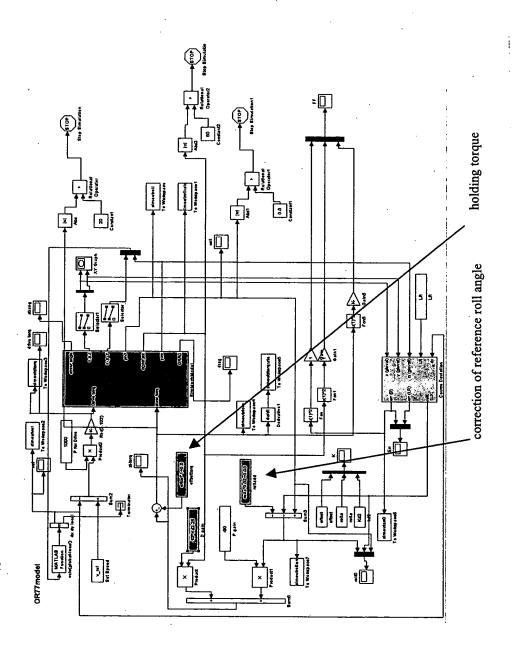


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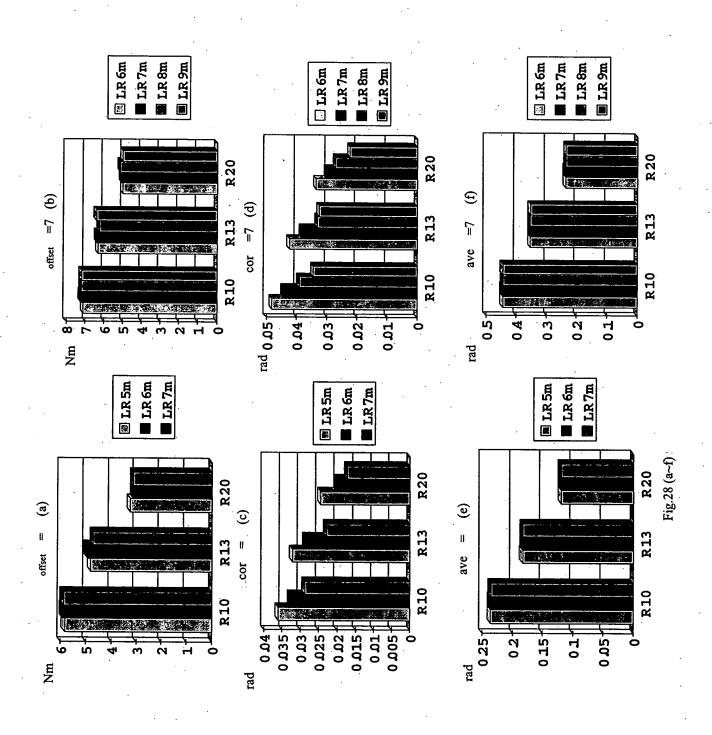
Appl. No.: Unknown

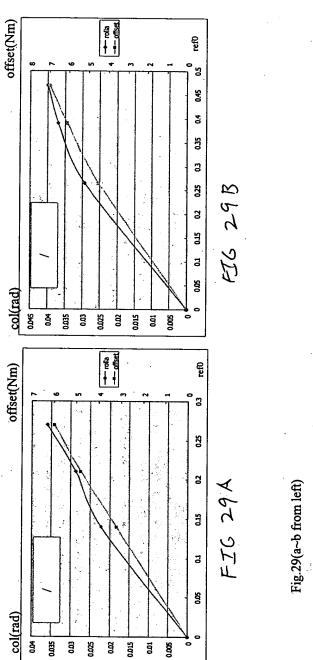


(b) Process of making feed forward rider model



Appl. No.: Unknown





Appl. No.: Unknown

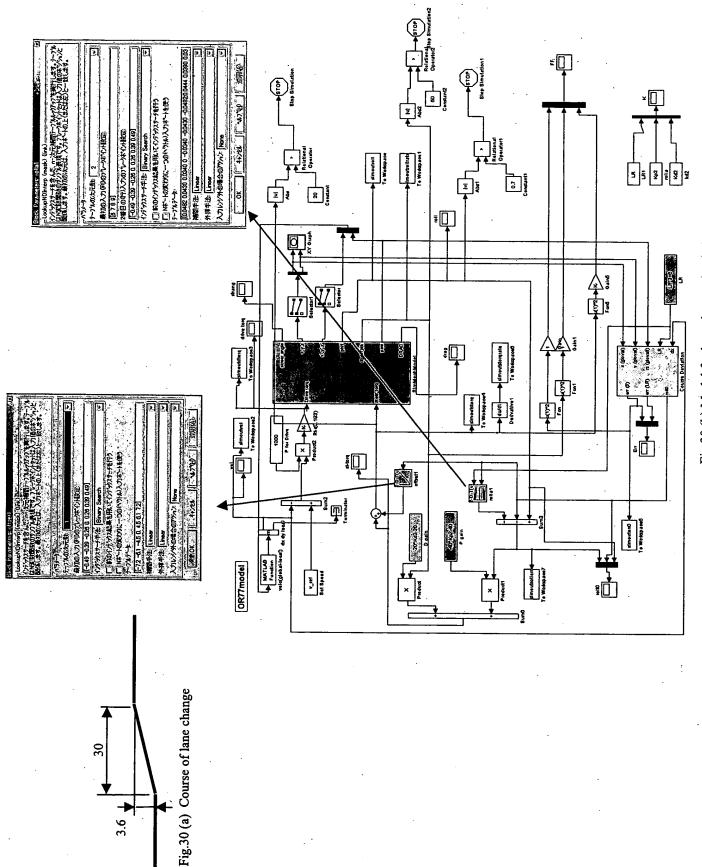
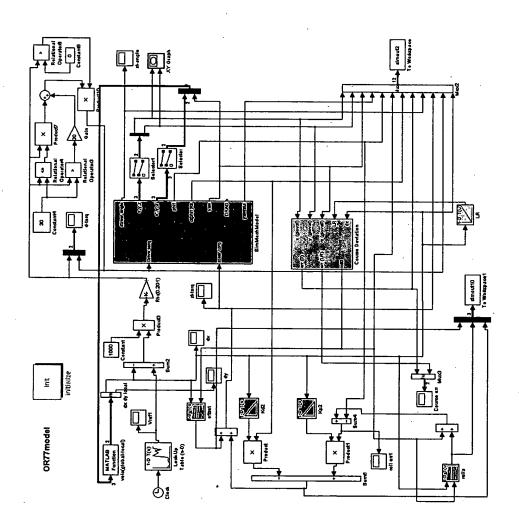


Fig. 30 (b) Model for lane change simulation

Appl. No.: Unknown



Appl. No.: Unknown

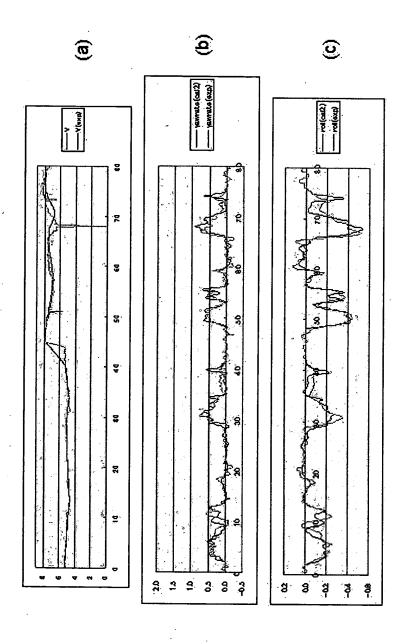


Fig.32 (a~c from above)

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Appl. No.: Unknown

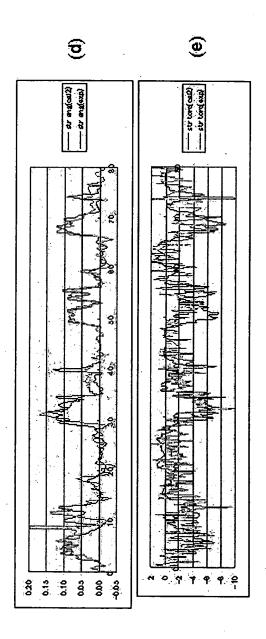
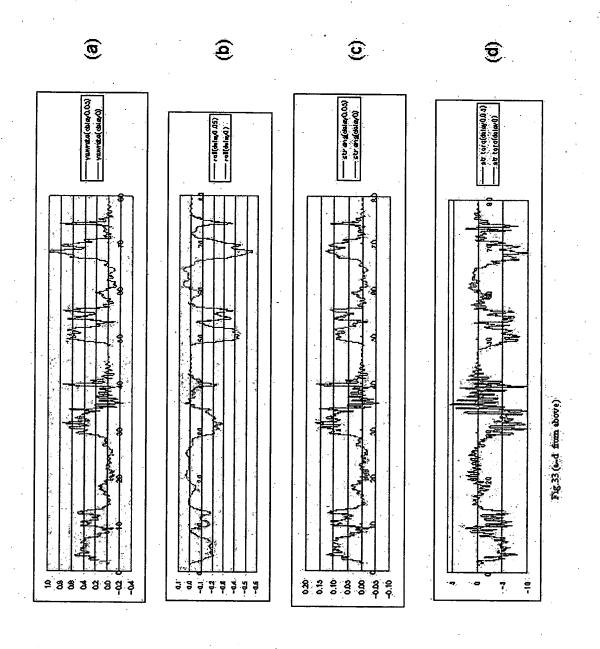


Fig 32 (d~e from above)

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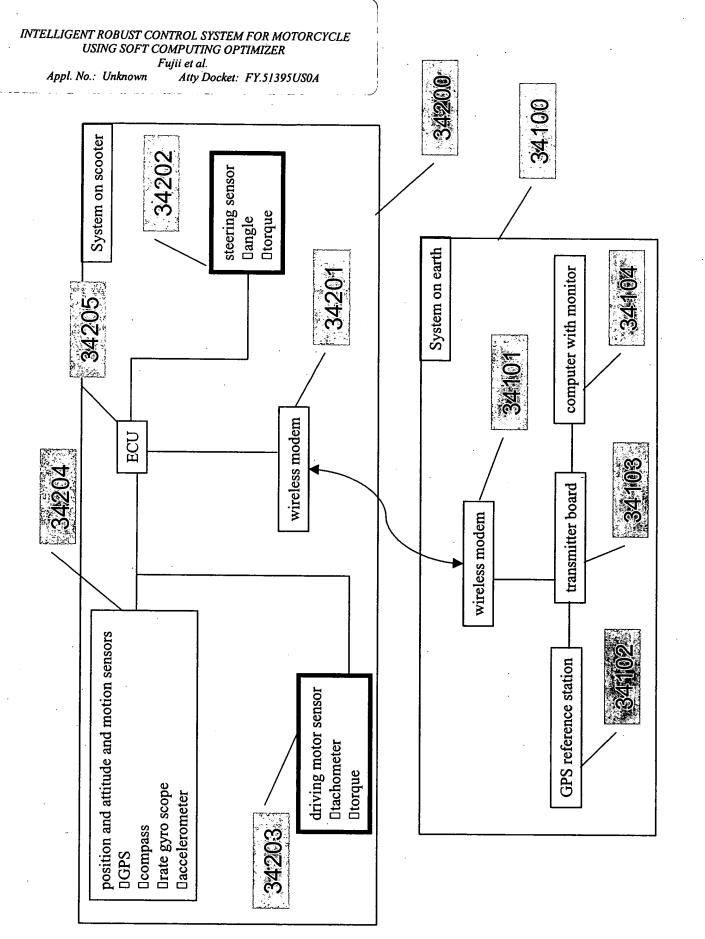
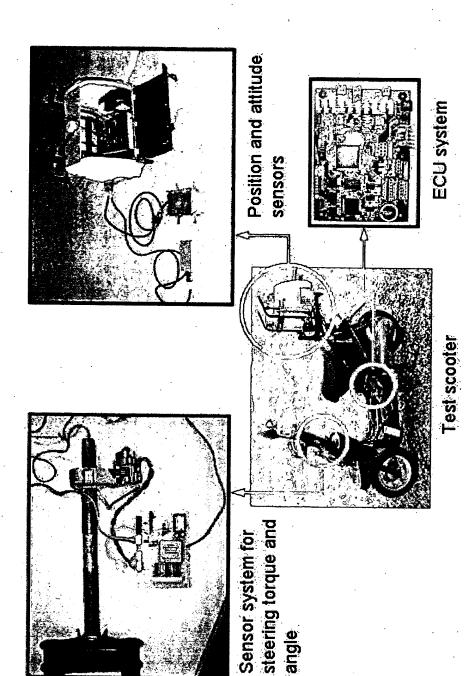
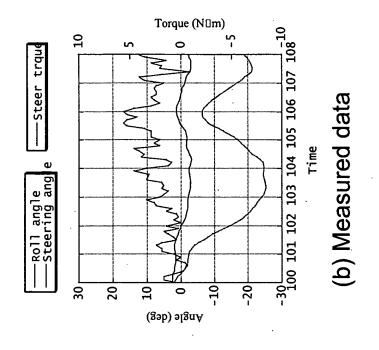


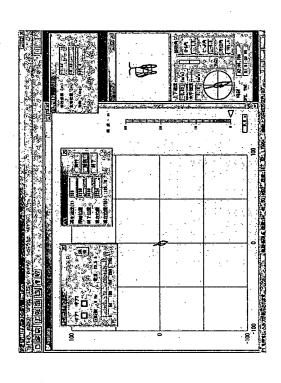
Fig.34



Appl. No.: Unknown

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(a) Realtime monitor of position and attitude

Figure 36